What Is Claimed Is:

Sub A1

1. An inner rotor motor comprising a rotor which includes a plurality of magnetic poles arranged circumferentially and a stator which is positioned outside a circumference of the rotor, has a stator core which includes a plurality of magnetic pole teeth which face the rotor in an opposed manner and arranges coils on respective magnetic pole teeth,

wherein pitches of the magnetic pole teeth in the rotor circumferential direction along which respective rotor facing surfaces of the magnetic pole teeth are arranged are set smaller than pitches of the rotor in the rotor circumferential direction along which the magnetic poles of the rotor are arranged.

2. An inner rotor motor according to the claim 1, wherein the pitches of the rotor in the rotor circumferential direction along which the magnetic poles of the rotor are arranged are set 1.5 times greater than the pitches of the magnetic pole teeth in the rotor circumferential direction along which respective rotor facing surfaces are arranged.

3. An inner rotor motor according to the claim 1, wherein the stator is arranged within 180° with respect to a center angle of the rotor.

4. An inner rotor motor according to claim 1, wherein six magnetic pole teeth are provided.

5. A disk device including the inner rotor motor according to claim 1.